

Title (en)  
METHOD, DATA PROCESSING ASSEMBLY AND COMPUTER PROGRAM PRODUCT FOR RETROFITTING AN ELECTRICAL ENERGY NETWORK

Title (de)  
VERFAHREN, DATENVERARBEITUNGSANORDNUNG UND COMPUTERPROGRAMMPRODUKT ZUR NACHRÜSTUNG EINES ELEKTRISCHEN ENERGIENETZES

Title (fr)  
PROCÉDÉ, ENSEMBLE DE TRAITEMENT DE DONNÉES ET PRODUIT DE PROGRAMME INFORMATIQUE POUR AMÉLIORER UN RÉSEAU D'ÉNERGIE ÉLECTRIQUE

Publication  
**EP 3125397 B1 20190717 (DE)**

Application  
**EP 15178794 A 20150729**

Priority  
EP 15178794 A 20150729

Abstract (en)  
[origin: US2017032065A1] A method retrofits an existing electrical energy network with additional controllable devices for transmitting energy. A model of the energy network is provided, the model takes into account a voltage distribution inside the energy network by a system of equations and/or a system of inequations on the basis of the number and position of additional controllable devices and on the basis of control positions of all controllable devices. The model is used to carry out a simulation for minimizing a target function. The target function takes into account retrofitting effort and/or energy losses caused by the additional controllable devices, and in which the number and position of additionally required controllable devices and the control positions of all controllable devices are stated as a result of the simulation so that the energy network complies with a predefined voltage band during operation.

IPC 8 full level  
**H02J 3/38** (2006.01)

CPC (source: EP US)  
**G06F 30/18** (2020.01 - EP US); **G06F 30/20** (2020.01 - EP US); **H02J 3/00** (2013.01 - EP); **H02J 3/381** (2013.01 - EP US); **H02J 2203/20** (2020.01 - EP US); **Y02E 60/00** (2013.01 - EP US); **Y04S 40/20** (2013.01 - EP US)

Cited by  
CN113486505A; CN109617131A; CN108233383A; CN111799841A; CN112395719A; CN113962052A; EP3131168A1

Designated contracting state (EPC)  
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DOCDB simple family (application)  
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